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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/052,744 03/31/98 HAMDI

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EXAMINER

ELAMIN, A

ART UNIT

PAPER NUMBER

2782

8

DATE MAILED:

08/26/99

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.  
09/052,744

Applicant(s)  
HAMDI et al

Examiner  
Abdelmoniem Elamin

Group Art Unit  
2782



- ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

- ☒ Claim(s) 1-24 is/are pending in the application.
- Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- ☒ Claim(s) 1-11, 14, 17, 18, 23, and 24 is/are rejected.
- ☒ Claim(s) 12, 13, 15, 16, and 19-22 is/are objected to.
- ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

- ☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- ☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been
- ☐ received.
- ☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
- ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

- ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- ☒ Notice of References Cited, PTO-892
- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 1
- ☐ Interview Summary, PTO-413
- ☒ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## DETAILED ACTION

### *Claim Rejections - 35 U.S.C. § 112*

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 6 & 7 recite the limitation "the printer" in page 23, lines 4 & 7. There is insufficient antecedent basis for this limitation in the claim.

### *Claim Rejections - 35 U.S.C. § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-11, 14, 17, 18, 23 & 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garney et al, US. Pat. No. 5,890,015.

5. As to claim 1 & 23, Garney discloses a computer system comprising;  
a computer including at least a USB port [System 200 of Fig. 2];  
a peripheral hub including at least a USB port [Hub 431 of Fig. 4];

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a first transceiver coupled to the USB port of said computer [Transceiver 530 of Fig. 5, col. 5, lines 35-38]; and

a second transceiver coupled to the USB port of said peripheral device [Transceiver 610 of Fig. 6, col. 5, lines 49-53];

said first and second transceivers cooperate to form a wireless USB bus link between said computer and said peripheral device [col. 5, lines 36-38, 50-53], *however*, Garney does not explicitly teach a peripheral device including at least a USB port.

It is well known to those skilled in the art that the USB hub 431 could be replaced by a peripheral device having at least a USB port.

6. As to claim 2, Garney teaches said computer includes a bus controller that controls the wireless USB bus link formed between said computer and said peripheral device [col. 7, lines 37-47].

7. As to claim 3, it is a matter of design choice to have said first transceiver internal to the housing of said computer.

8. As to claim 4, Garney teaches said computer has a housing and wherein said first transceiver is provided external to the housing of said computer, and said transceiver couples to the USB port of said computer [col. 5, lines 28,29].

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9. As to claim 5-7, it is a matter of design choice to have said peripheral device being a printer which has a housing and wherein said second transceiver is provided internal or external to said housing.

10. As to claims 8 & 9, Garney teaches said peripheral device is a peripheral hub having a plurality of USB ports [Hub 431 of Fig. 4]; wherein said peripheral hub further includes an upstream USB port {USB 430, of Fig.4], and wherein said transceiver is connected to the upstream USB port of said peripheral hub [see Fig. 4].

11. As to claim 10, Garney teaches said computer system further comprises a printer [USB I/O device 441 of Fig. 1, col. 6 lines 9-14].

12. As to claims 11, 17 & 18, Garney teaches said computer supplies a wired internal USB bus to the USB port of said computer [Bus 220 of Figs 2 & 4, col. 3, lines 8-12], and wherein first transceiver comprises:

a first transceiver circuit [Transceiver Unit 530 of Fig. 5];

a first bus interface that interfaces said transceiver circuitry to the internal USB bus [SIE 510 of Fig. 5], *however*, Garney does not explicitly teach a first antenna. It is well known to those skilled in the art that transceivers comprise an antenna for signal transmission or reception.

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13. As to claim 14, Garney teaches said second transceiver comprises:

a second transceiver circuitry [Transceiver 610 of Fig. 6];

a second bus interface that interfaces said second transceiver circuitry to the wireless USB bus [Microcontroller 640 of Fig. 6], *however*, Garney does not explicitly teach a second antenna. It is well known to those skilled in the art that transceivers comprise an antenna for signal transmission or reception.

14. As to claim 24, managing power utilization of transceivers is well known in the art.

*Allowable Subject Matter*

15. Claims 12, 13, 15, 16, 19-22 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

15.1 the prior art does not teach the following limitations;

said first transceiver circuitry has a normal power mode ... the internal USB bus.

said first transceiver circuitry comprises;

a first modulator ...;

a first up-convertor ...;

a first down-convertor ...;

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a first demodulator ...;

said second transceiver circuitry has a normal power mode ... the wireless USB bus.

said second transceiver circuitry comprises;

a second modulator ...;

a second up-convertor ...;

a second down-convertor ...;

a second demodulator ...;

said transceiver comprises;

a modulator ...;

an up-convertor ...;

a down-convertor ...;

a demodulator ...;

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelmoniem I. Elamin whose telephone number is (703) 305-3804, or via e-mail, [abdelmoni.emelamin@uspto.gov](mailto:abdelmoni.emelamin@uspto.gov). The examiner can normally be reached Monday through Friday from 9:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee, can be reached at (703)305-9717. The fax number for this Group is (703)305-3718.

Any inquiry of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)305-9600.

**Any response to this action should be mailed to:**

Commissioner of Patents and trademarks

Washington, D.C. 20231

**Or faxed to:**

(703)308-9051 (for formal communications intended for entry)


**Or:**

(703)305-3718 (for informal or draft communications, please label "PROPOSED"  
or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA,  
Sixth Floor (receptionist).

Abdelmoniem I. Elamin

August 20, 1999

  
THOMAS C. LEE  
SUPERVISORY PATENT EXAMINER  
GROUP 2700